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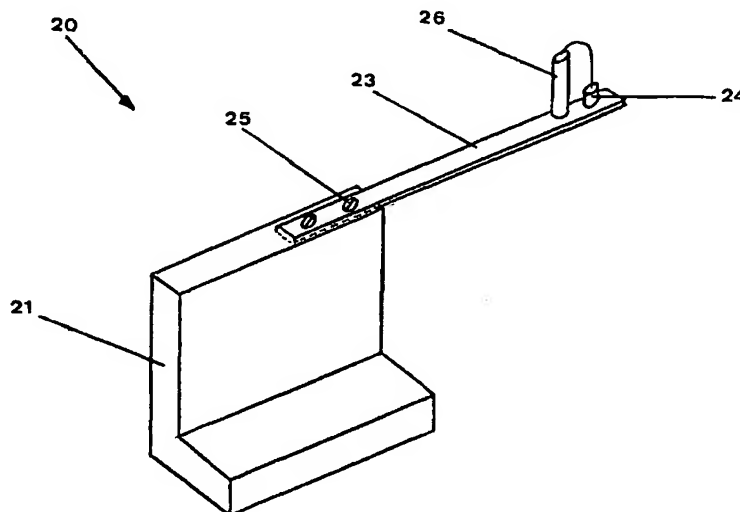
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(54) Title: APPARATUS FOR AND METHODS OF STRESS TESTING METAL COMPONENTS



(57) Abstract: A tuning device (23) and an apparatus that incorporates the tuning device (23) for use in testing the integrity of a railway line (30) to obtain an improved test signal, the tuning device (23) including an elongate member (23) adapted to be attachable at one end of the railway line (30) being tested in situ or is attachable to an attachment member (21) coupled to the section (10) of railway line (30), and wherein a vibration signal measuring means (24) is adapted to be secured to the other end of the elongate member (23). The apparatus can include a control means (2), a vibration means (3), the tuning device (23) configured and arranged to be attachable to the railway line (30) and a vibration measuring means (24) is attachable to the railway line (3) to directly vibrate the section (10) of the railway line (30), the control means (2) controlling the frequency of vibration and to receive and process measurements of the amplitude of vibration from the tuning device (23) and the frequency of vibration from the vibration measuring means (24).